

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P866347

Luminaire Tested: PRLX-2002-M-940-07L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-07L-L-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

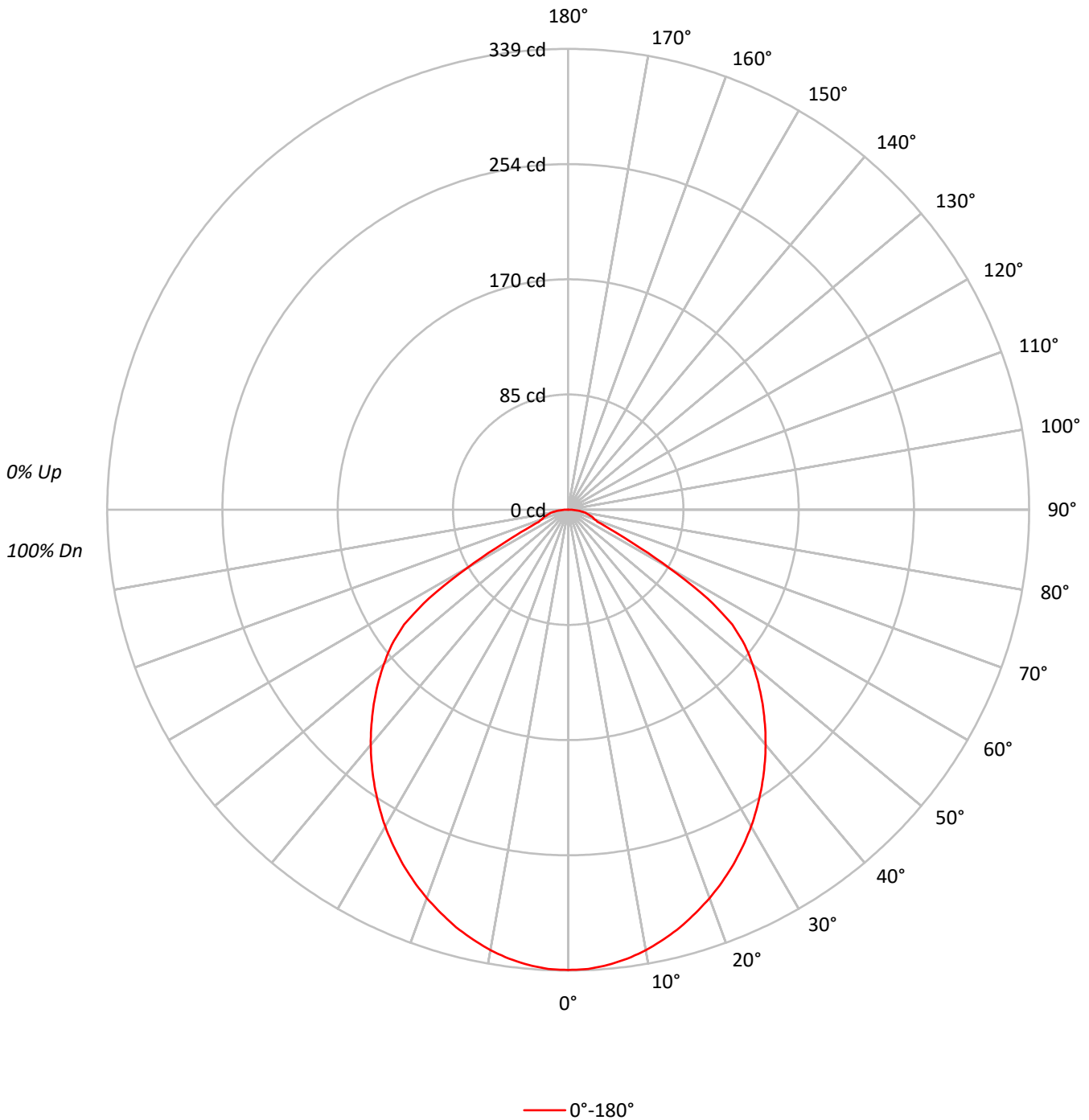
Lumens per Lamp: N/A
Luminaire Lumens: 756.3 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81		86	83	79		84	80	78	76
3	94	85	77	72	92	83	76	71	80	75	70		78	73	69		75	71	68	66
4	87	76	68	62	84	75	67	62	72	66	61		70	64	60		68	63	59	57
5	80	68	60	54	78	67	60	54	65	58	53		63	57	53		62	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56	51	46	44
7	69	56	48	42	67	56	48	42	54	47	42		53	46	42		51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38		48	42	38		47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34		45	38	34		44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31		41	35	31		41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2694
5°	2685
10°	2659
15°	2620
20°	2575
25°	2525
30°	2472
35°	2411
40°	2346
45°	2275
50°	2191
55°	2042
60°	1372
65°	649
70°	477
75°	510
80°	568
85°	630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2275 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.9	4.2
10°-20°	89.6	11.8
20°-30°	132.5	17.5
30°-40°	155.2	20.5
40°-50°	155.8	20.6
50°-60°	125.8	16.6
60°-70°	40.7	5.4
70°-80°	17.6	2.3
80°-90°	7.2	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	254.0	33.6
0°-40°	409.2	54.1
0°-60°	690.8	91.3
0°-90°	756.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	756.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	339	
5°	336	32
15°	318	90
25°	288	132
35°	248	155
45°	202	156
55°	147	126
65°	34	41
75°	17	18
85°	7	7
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	338.6
2.5°	338.2
5°	336.2
7.5°	333.1
10°	329.1
12.5°	323.8
15°	318.1
17.5°	311.2
20°	304.1
22.5°	296.2
25°	287.7
27.5°	278.6
30°	269.1
32.5°	258.9
35°	248.2
37.5°	237.2
40°	225.9
42.5°	214.1
45°	202.2
47.5°	189.8
50°	177.0
52.5°	163.8
55°	147.2
57.5°	121.5
60°	86.2
62.5°	53.9
65°	34.5
67.5°	23.7
70°	20.5
72.5°	18.9
75°	16.6
77.5°	14.6
80°	12.4
82.5°	9.9
85°	6.9
87.5°	3.6
90°	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.18	15.68	14.55	15.99	16.31	14.18	15.68	14.55	15.99	16.31
	3H	14.29	15.62	14.67	15.95	16.31	14.29	15.62	14.67	15.95	16.31
	4H	14.38	15.62	14.78	15.97	16.35	14.38	15.62	14.78	15.97	16.35
	6H	14.49	15.64	14.90	16.00	16.39	14.49	15.64	14.90	16.00	16.39
	8H	14.55	15.63	14.97	16.02	16.43	14.55	15.63	14.97	16.02	16.43
	12H	14.59	15.64	15.02	16.02	16.45	14.59	15.64	15.02	16.02	16.45
4H	2H	14.15	15.39	14.55	15.74	16.12	14.15	15.39	14.55	15.74	16.12
	3H	14.35	15.37	14.76	15.77	16.17	14.35	15.37	14.76	15.77	16.17
	4H	14.51	15.41	14.94	15.83	16.27	14.51	15.41	14.94	15.83	16.27
	6H	14.73	15.52	15.18	15.96	16.42	14.73	15.52	15.18	15.96	16.42
	8H	14.83	15.57	15.29	16.01	16.48	14.83	15.57	15.29	16.01	16.48
	12H	14.93	15.59	15.41	16.07	16.54	14.93	15.59	15.41	16.07	16.54
8H	4H	14.52	15.26	14.99	15.70	16.17	14.52	15.26	14.99	15.70	16.17
	6H	14.82	15.43	15.32	15.93	16.40	14.82	15.43	15.32	15.93	16.40
	8H	14.99	15.54	15.50	16.05	16.54	14.99	15.54	15.50	16.05	16.54
	12H	15.16	15.66	15.67	16.15	16.72	15.16	15.66	15.67	16.15	16.72
12H	4H	14.51	15.17	14.99	15.65	16.12	14.51	15.17	14.99	15.65	16.12
	6H	14.82	15.38	15.34	15.89	16.38	14.82	15.38	15.34	15.89	16.38
	8H	15.04	15.54	15.55	16.03	16.60	15.04	15.54	15.55	16.03	16.60